

In the Claims

1. (currently amended) An apparatus for regulating the internal pressure of a closed system, comprising:

- a) a valve housing connected to said closed system;
- b) an intake valve connected to said valve housing for receiving a pressurized substance in one direction through said valve housing into the closed system[[:]]

comprising:

i) an intake valve aperture for receiving pressurized substance from a source supply into the closed system;

ii) an intake valve block for preventing the escape of pressurized substance from the closed system through said intake valve aperture;

iii) an intake valve spring for retaining said intake valve block in a closed position; and

iv) a source supply trigger pin for forcing said intake valve block into an open position thereby allowing pressurized substance to enter the closed system wherein said intake valve spring retains said intake valve block in a closed position;

c) a release valve connected to said valve housing for releasing excess pressure through said valve housing from the closed system, said release valve comprising:

i. a release valve aperture for releasing pressurized substance therethrough;

ii. a release valve block positioned within said release valve aperture for selectively preventing said pressurized substance from escaping said valve housing through said release valve aperture, said release valve block having a first seating surface surrounding said intake valve block at about a 45 degree angle with the central axis of said valve housing, said intake valve block being normally seated on said release valve block first seating surface, said release valve block having a second seating surface adjacent said

first seating surface for seating said release valve block being seated normally on a seating surface formed on an inner surface of said valve housing;

iii. a release valve spring connected to said release valve block for retaining said release valve block in a closed position wherein said release valve spring retains said release valve block in the closed position thereby maintaining a constant internal pressure and upon increasing said constant internal pressure said release valve spring causes said release valve block to move from the closed position to an open position, thereby allowing an excess pressurized substance to escape from said release valve aperture, said intake valve block being unseated from said release valve block when pressurized substance is being pumped into said sealed enclosure, and said intake valve block remains seated and moves with said release valve block when said release valve block becomes unseated when pressure within said sealed enclosure is being released.

2. (original) The apparatus as recited in claim 1, further comprising a setting nut connected to said valve housing and said release valve spring for selectively compressing said release valve spring for determining a desired pressure level to be maintained within said closed system as expressed by the alignment of said setting nut with graduated indicia imprinted on the outside of said valve housing.

3. (currently amended) The apparatus as recited in claim 2, wherein said housing includes said graduated indicia etched therein and said desired pressure level is obtained by aligning said setting nut with respective indicia on said housing.

4. (original) The apparatus as recited in claim 3, wherein said setting nut is adjusted in accordance with the formula $P=KX/A$, where area A and spring constant K are constants and variable setting X obtains the pressure P.

5. (original) The apparatus as recited in claim 3, further comprising a retaining nut for retaining said setting nut in a desired position.

6. (original) The apparatus as recited in claim 5, wherein said retaining nut is threadedly attached to said valve housing.

7. (canceled)

8. (currently amended) The apparatus as recited in claim 6 [[1]], wherein said intake valve aperture is threadedly covered by a cap.

9. (currently amended) The apparatus as recited in claim 8 [[1]], wherein said valve housing is connected to a tire.

10-13. (canceled)

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